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The Prospect of the Weather, Winds, and Height of the Mercury in the Enter, on the first day of the Month; and of the whole Rain in every Month the Year 1703, and the beginning of 1704: Observed at Towneley in Easthire, by Ri. Towneley, Esq., and at Upminster in Essex. By the Rev Mr W. Derham, F. R. S.

	Weather	Weather	Winds	Winds	Barometer	Baromeur	Kam	Ř:
Month.	at	at	at	at	at	at	at	7
	Towneley.	Upminster.	Towneley.	Upminster.	Towneley.	Upminster	Towncley.	Upm
January.	Overcast.		SE 5	SE 1	29 04 28 91 80		15 17	8
February.	Overcast.	and Fair.	SSE 3	E 1 Clouds. S.	29 29	62 68	15 88	6
Marob.	Chequer'd.	Snow.	WSW NE	NW 1	64 67 73	83	20 '02	4
April.	Chequer'd and Claudy.	Fair. Cloudy. Fair.	w	WSW1 W 4	59 59 54	91 91	17 63	12
May.	Cloudy.	Cloudy. Thunder, with Hail & Rain.		NI:W 3 NWbN3	49 oc 6c	70 76	17 64	20
June.	Cloudy.	Cloudy. Clear.	S	S 0 S 1	38 49 63	75 88	2 <b>4</b> 06	14
July.	Cloudy.	Fair.		E 1 NbE2	84 80 77	96 90	3 65	14
August.	Cloudy.	Thunder and Rain. Fairer.	SE 1 4 4	N 2 N by W 2 Clouds SE		. <b>7</b> 2 . 69	14 21	S
Septemb.	Clear Chequer'd	Cloudy. Fairer.	E	NW I WNW I	18 00 08	4C 4C	32 40	,14
OHober.	Chequer'd.	Fair.	N	NNW4	28 76 83 86	•	7 04	9
Novemb.	Overcast.	Cloudy.	E	NDEI	29 56 51 52		28 <b>5</b> 6	7
			W		36	<u>i</u>		

Prospect of the Weather, Winds, and Height of the Mercury in the Barotter, on the first day of the Month; and of the whole Rain in every Month in Year 1703, and the beginning of 1704: Observed at Towneley in Lanshire, by Ri. Towneley,  $E_{1}$ , and at Upminster in Essex. By the Reverend r W. Derham, F. R. S.

1	Weather	Weather	Winds	Winds	;	Barom	erer	Baromeur	K	am	ĸ	ain
<b>h.</b>	at	at	at	at		at		_ at		at		at
	Towneley.	Upminster.	Towneley.	Upminst	er.	Towne	ley.	Upminster	Tox	ncley.	Upm	inster.
ry.	Overcast.		SE 5	SE	I	29 28	04 91 80	29 39 35 22	15	17	8	89
ıry.	Overcast.	Frost and Fair.	SSE 3	E Clouds.	s.	29	29 37 47		15	88	6	41
•	Chequer'd.	Frost, and Fair. Snow.	WSW NE	N W	I		64 67 73		20	102	4	75
		Fair. Cloudy. Fair.	w	W S W W	1 4		59 59	93	17	63	12	49
	Cloudy.	Cloudy. Thunder, with Hail & Rain.	ł	n b W NWbN			49 00 60	70	17	64	20	77
	Cloudy.	Cloudy. Clear.	S	_	1		38 49 63	75 88	2 <b>4</b>	06	14	35
	Cloudy.	Fair.	SSE. SE E 1	E N b E	1 2		84 80 77	99 96 90	3	65	14	90
•		Thunder and Rain. Fairer.	SE 1 4 4	N N by W Clouds			57 55 58	72 72 . 69	14	21	3	36
ıb.	Clear Chequer'd.	Cloudy. Fairer.	E	WNW N W	1 I .		81 00 63	30 40 40	32	40	,14	86
r.	Chequer'd.	Fair.	N	NNW	4	28	76 83 86		7	04.	9	55
ub.	Overcast.	Cloudy.	E	NbE	I	29	56 51 52	69	28	56	7	27
			W				36					

January.	Overcast.		SE 5		SE	1	29 28	04 91 80	29	39 35 22	15	17	8
February.	Overcast.	and Fair.	SSE		E Clouds	. S.	29	29 37 47		62 68	15	88	6
March.	Chequer'd.	Frost, and Fair. Snow.	WSW NE		N W	I		64 67 73		82 83 92	20	'O2	4
April.		Fair. Cloudy. Fair.	w		WSW W	1 4	i i	59 59		93 91 91	17	63	12
May.	Cloudy.	Cloudy. Thunder, with Hail & Rain.	NN	E	n I; W NWbN		! ! !	49 00 60	-	66 70 76	17	64	20
June.	Cloudy.	Cloudy. Clear.	S		S S	0		38 49 63		61 75 88	24	<b>o</b> 6	14
July.	Cloudy.	Fair.	SSE. S E 1		E N b E	1 2		84 80 77		99 96 90	3	65	14
August.	Cloudy.	Thunder and Rain. Fairer.	SE:		N N by W Clouds		ı	57 55 58		72 72 . 69		21	3
Septemb.	Clear Chequer'd.	Cloudy. Fairer.	E		N W	1		81 00 82		30 40 40	32	40	,14
October.	Chequer'd.	Fair.	N		NNW	4	28	76 83 86	30	8 <sub>7</sub>	7	04	9
Novemb.	Overcast.	Cloudy.	E		NbE	I	29	56 51 52	29	72 69	28	56	7
Decemb.	Overcast Cloudy.	Overcast. Rain.	·W	3				36 45 48		18	10	<b>24</b>	119
January.	Overcast.	Overcast.	SSE	2	E SEbE	O		80 82 85	30	07 10 10	I	39	4
February.	Overcast.	Milling. Cloudy.	W	i	NW bi	J I		90 02 02		23 26 26	Ì	, 93	<b>' 2</b>
March.	Overcast.	Dvercast. Sairer.	S		SE BE	O	29	11	29	58 45 40		78	16
April.	Cloudy and Chequer'd	Rain with dail. Eair	NW		S b W Clouds S W by	•	28	72 94 07		17 18 38	1		

ry.	Overcast.	Overcast.	SE 5	SE	I	29 28	04 91 80	29	39 35 22	15	17	8	89
ıry.	Overcast.	and Fair.	SSE 3	E Clouds	. S.	29	29 37 47		62 68	15	88	6	41
•	Chequer'd.	Frost, and Fair. Snow.	W S W N E	N W	I		64 67 73		8 <sub>2</sub> 8 <sub>3</sub> 9 <sub>2</sub>	20	102	4	75
		Fair. Cloudy. Fair.	w I	WSW W	4		59 59		91	17	63	12	49
	Cloudy.	Cloudy. Thunder, with Hail & Rain.		n i: W NWbN			49 00 60		76	17	64	20	77
	Cloudy.	Cloudy. Clear.	S	S S	1		38 49 63		61 75 88	2 <b>4</b>	06	14	35
	Cloudy.	Fair.	SSE. SE E 1	E N b E	1 2		84 80 77		99 96 90	3	65	14	90
•		Thunder and Rain. Fairer.	4	N N byW Clouds			57 55 58		72 72 69	14	21	ર	36
b.	Clear Chequer'd.	Cloudy. Fairer.	E	WNW N W	1 I .		18 00 69		40	32	40	,14	86
r.	Chequer'd.	Fair.	N	NNW	4	28	76 83 86	30	8 <sub>7</sub>	7	04	9	55
ub.	Overcast.	Cloudy.	E	NbE	I	29	56 51 52	!	72 69	28	56	7	27
. / -	Overcast Cloudy.	Overcast. Rain.	- W				36 45 48		18	10 196	24	2	14_ 94_
r <i>y</i> .	Overcast.	Overcast.	SSE 2	E SEbE	O I		80 82 85		07 10 10	31	39	4	06
ıry.	Overcast.	Milling. Cloudy.	w	NWbN	l I		90 02		23 26 26		. 93	<b>2</b>	19
٠.	Overcast.	Dvercast. Sairer.	S	SE BE	0 I	29	11	29	58 45 40	20	78	16	<b>04</b>
	Cloudy and Chequer'd	Rain with dail.	W 4 NW7	S b W Clouds S W by		28	72 94 07		17 18 38	l			
	Circipieru	J. ani.							<del></del> -	<del></del>	<u> </u>		This

This Illustrious Society having been pleased to accept of Mr Townley's and my Observations compared, concerning the height of the Mercury, &c. for divers years, to the year 1702, which were published in the Transactions; it may not, I hope, be unacceptable to continue these Observations as far as Mr Towneley hath gone with them, till his Removal from Towneley.

And having room, I have added his Observations also of the Weather and Winds on the first day of every month, together with my own at the same time, extracted out of my larger Tables, now in the Society's custody. From whence these things may be observed.

1. That (as I have often observed in some other Papers) there is every year much more Rain salleth at

Towneley than Upminster.

By the assistance of an Ingenious Learned Member of this Society, I have an Extract of the Rain at Paris and Lisse, as far as the French have published their Observations. And by comparing the Rain of one place with that of another, I find that there is about twice as much Rain falleth at Townley, as doth either at Upminster, Paris, or Lisse. Mr Towneley hath formerly observed in one of the Transactions, that as much more Rain falleth at Townley as Paris. And Mr de la Hire observes, that more Rain falleth at Lisse than Paris. But Towneley doth far exceed, as hath been said, and will appear by particulars.

At Life, one year with another, the Depth of the Rains amount to 22 inches 3 lines, Paris measure, or 23 in. 31. which make about  $23\frac{1}{2}$  inches English, or  $24\frac{1}{2}$ . At Paris, one year with another, they amount to 20 inches  $3\frac{1}{2}$  lines Paris measure, which is near 22 inches English. But at Towneley, one year with another, according to Mr Towneley's computation formerly, the Rains amount to above +1 inches depth. And by taking eight other years, in which the Rain was observed both at Towneley

Towneler and Upminster (viz. from 1696 to 1704.) 1 and that all the 8 years Rain at Townseley amounteth to bove 1700 l. Troy, at Upminster 823 & only. Which faid fumms being divided by 8, give 2121. T, one year with another, at Towneley, and near 1031. at Upminster. Each of which summs being doubled, and making a Decimal Fraction of the last Figure, doth nearly give the number of inches, which all the Rain would have rifen to, if the Earth had not swallowed it up, viz. 42 inches at Towneles, and about 20 inches at Upminster. Wheretore the Rain at Upminster is less than at Paris, at Paris than at Lifle, and at every one of the places less than at Towneley by much. The reason of which vast surmount at Towneley, is doubtless from the height of the Hills thereabouts, which retard or stop the Westerly Clouds: From which Point the Winds blow more than any other here in England. But

2. Notwithstanding the great disproportion of Rain between one place and another, yet there is a great agreement between our Barometers; one Rising or Falling when the other doth; and that much, or little, as the other doth, although not always exactly in the same

proportion.

And this is what I find Monsieur Maroldi hath observed, by comparing his Observations at Paris with mine at Upminster, in the years 1697 and 1698. Only at Paris the
is commonly 3 or 4 lines lower than at Upminster.
And so it appears to be at Towneley, from this and some
other Tables, viz. 3 or 4 tenths of an inch lower at
Towneley than at Upminster. Which is an argument that
Towneley and Paris are situated higher above the surface
of the Sea than Upminster (which is nearly in the same
level with London) is.

3. Another thing shewn by the foregoing Table is, That there is some agreement between the Winds at Towneley and Upminster. Which although not always exactly

exactly in the same Point, yet do often tend the same way, blowing within a Point or two perhaps of the same course; especially when the Wind is somewhat strong. Or if the Winds have differed, yet the Scudd (as the Seamen call the current of the Clouds) hath commonly shown

the motion of the upper Air to agree thereto.

This I say doth often happen, though not always. And this also Monsieur Maraldi hath observed at Paris in the aforesaid years, viz. "That there are a great "many days, during the different Seasons of the year, "where the Winds are the same in both Places, [i.e. "Paris and Upminster.] When the Wind was the same, both in one part and the other, it was ordinarily pretty strong, and of long continuance. And also he observed that the Winds had changed alike in both Places. Vid. Hist. de l' Acad. Roy. des Sciences An. 1699.